

# THESIS PRESENTATION OUTLINE

# Justin Green - CM

## I. INTRODUCTION (3 screens)

- a. Self
- b. Project
- c. Outline of Presentation / Topics

### II. PROJECT PACKGROUND (2 screens)

- a. Building Type / Function
- b. General Statistics
  - i. Contract Type
  - ii. Cost
  - iii. Schedule
  - iv. Systems

#### III. ANALYSIS #1: BIM Implementation (9 screens)

- a. Problem Identification / Research Goal
- b. The Value of BIM
- c. BIM Execution Plan
- d. Ways to pay for BIM
  - i. Building System Analysis
  - ii. Digital Fabrication
  - iii. Three Dimensional coordination
- e. Creating a BIM Model
- f. Conclusions and Recommendations

#### IV. ANALYSIS #2: Solar Photovoltaic System Design (9 screens)

- a. Problem Identification / Research Goal
- b. PV Array Design
  - i. Product Selection
  - ii. Orientation and Shading
  - iii. System Sizing and Layout
- c. Electrical Breadth (3 screens)
  - i. Energy Production
  - *ii.* Electrical Components and System Tie-in
  - iii. Results
- d. Feasibility Analysis
  - i. System Cost
  - ii. Rebates and Incentives
  - iii. Payback Period
- e. Conclusions and Recommendations



# V. Rainwater Collection (15 screens)

- a. Problem Identification / Research Goal
- b. Collection System Design
  - i. Potential Gallons Harvester
  - ii. Estimated Water Usage
  - iii. Location and Sizing of Storage Tanks
  - iv. Waterless Urinal Savings
- c. Structural Breadth (3 screens) ---
- [Optional Depending on Time]
- i. Impact to Structure
- ii. Sizing of Beams / Columns
- d. Feasibility Analysis
  - i. System Cost
  - ii. Payback Period
- e. Conclusions and Recommendations

#### VI. SUMMARY OF CONCLUSIONS (1 screen)

VII. ACKNOWLEDGEMENTS (1 screen)

#### **PRESENTATION SUMMARY:**

- Total of 40 screens.
- Disappearing and reappearing side bar.
- Both structural and electrical breadths are planned on being presented, but only the electrical will be included if time is limited.